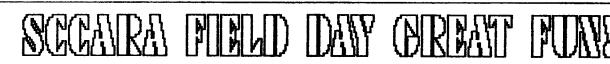




SCCARA-GRAM

WGUUVOLUME 5 SANTA CLARA COUNTY AMATEUR RADIO ASSOCIATION ****ORGANIZED IN 1921 SAN JOSE, CALIFORNIA****







DETAILS INSIDE, ONE OF BEST TURNOUTS IN YEARS. EVERYONE HAD A SUPER TIME. NO ONE WENT AWAY HUNGRY ...NO ONE WENT AWAY FOR LACK OF HF CONTACTS....

FROM THE PREZ

June turned out to be a banner monthil Our club and board meetings were pretty much aimed at having a successful Field Day, but I think we had a great onell Some of us met at WMGM's house to load gear, then caravaned up the mountain, others going direct. We had a good crew on hand, early enough to get us on the air by 1100. A good part of our crew were Novices, drawn in large part by the enthusiasm of their instructors, WMGM, Dan and WAGYMD, Wally. Everyone had plenty to do and see... we all pitched in on erecting our beam, two verticals, two dipoles and a two meter beam for WAGYMD's Packet installation. Hopefully, someone else may have our point count on stations worked, but the <u>real thrill</u> was laying hands on all of this gear and operating it.

Evening brought a superb steak barbecue, put together by Chefs Herb, KB6ABG and wife, Cynthia. What a feed!!! The thirty-six chowhounds we had for dinner drew down to sixteen who stayed over, working until the wee hours. Ham and eggs were enjoyed by these faithful for breakfast, again done by the same Kitchen Magicians. Shutdown came at 1100, and it all had to be packed up and the area policed. But was it ever worth it!! Mt. Madonna again for 1987?

To make a point, "Field Day" is one of many A.R.R.L. activities we participate in. SCCARA is (barely) an A.R.R.L. sponsored club. To be so sponsored, a minimum of 51% of the club membership must belong to A.R.B.L. The influx of new members has driven our percentage down. The magazine "QST" goes with A.R.R.L. Membership plus many benefits. They are the ones that go to bat for the Hams with F.C.C. Now that some of you new hams have a feel for such activity, we old timers cordially invite you to join. An application is printed elsewhere in this publication. We need you. If you do join, use this application, forwarding it to our Treasurer, Dan Dietz. SCCARA receives a nominal commission (\$5 ist time, \$2 renewal) and we can use the dough.

Don't forget to get your Convention application in soon to receive maximum chances in our prize drawings. The prizes are looking better and better!

See you at the July 14th Club Meeting at County Service Center, 1555 Berger Dr., San Jose starting at 7:30 PM. Learn about the Wonderful World of 900 Gigahertz.

Board Meeting will be at San Jose Hospital, 7:30 PM, July 17th.

de WD6CHD (Chili Hot Dog), Ed

(1)

SANTA CLARA COUNTY AMATEUR RADIO ASSOCIATION

MINUTES OF CLUB MEETING JUNE 9th 1986.

The meeting was held at the County Service Center, 1555 Berger Dr. San Jose. Was called to order by our President Ed Rawlinson WD6CHD at 7:30 P.M.

DAN G. DIETZ, WM6M TREASURER'S REPORT.	
Beginning balance GENERAL FUND\$1,258	5.88
Deposits	00.00
Disbursements ($\frac{100}{100}$
Ending balance\$1,480	5.88

Note: A repeater Fund was established due to club members contributions, which were originally deposited in the General Fund. \$210.00 of the \$230.00 shown in the deposit of the General Fund were actually contributions to the Repeater Fund. This new formed fund will now show a running balance.

Beginning balance Repeater Fund\$	0.00
Deposits	210.00
Disbursements(Crystals for 440 MHz Repeater)\$	33.80
Ending balance\$	176.20

Adjustment.

Ending balance General Fund\$1,488.88 Ending balance Repeater Fund\$ 176.20 Adjusted Ending balance General Fund\$1,312.68

Convention Account balance-----\$2,084.14 San Francisco Federal Savings-----\$ 804.09

FLEA MARKET.

Profits from the seven spaces rented, sales of equipment including the donations made by Bill Stevens W6ZM and Quements were \$203.71. There seem to be lack of interest on the part of the membership.

SHORTY FREITAS, AE6Z.

Send in your registration for the convention early. Some of the exhibitors are, HRO, Icom, Dick Smith Electronics, Yaesu are definitively coming. There are others that are not confirmed yet.

ART FURTADO, KG6PY.

John Baxter will tell us all about the 900 MHz at our next meeting.

VIDEO OF FIELD DAY WAS PRESENTED BY ED AND ART.

Field Day proves that the Amateurs do have the ability to overcome what ever type of emergency situation is presented. It is something that gets in your blood.

For the Field Day of June 28th, eight people are staying over night at Mt. Madonna Park. Herb KB6ABG will be the cook. Meal will be served at 4 P.M. The time to meet there is 9 A.M. Attendance 53.

There being no further business, the meeting adjourned at 9:12 P.M. Joe Bocanegra, WA6YRU Secretary

FROM YOUR TREASURER

July! Good old hot Summertime fun! By the time this gets to you Field Day 1986 will be a memory..a pleasant one (I hope!) for those of you who ventured to the mountaintop to test your skills, endurance, resilience and outdoorsmanship....and Herb's cooking!

REPEATER FUND....

As you are aware, the money contributed so far to the repeater fund is being counted as a separate fund from the club's general fund. We have many VHF/UHF enthusiasts in SCCARA; however, this is not everyone's cup-of-tea. Some of you could care less about operating on our repeaters, and it certainly isn't fair to direct your money towards the repeaters. If you DO use the repeater or plan to do so, you may wish to consider making a contribution toward the fund. Thanks to all who see the repeaters as a useful club project!

Contributions to date: Wally Britten, KA6YMD.....\$20 Art Furtado, KG6PY.....\$20 Joe Bocanegro, WA6YRU...\$20 Shorty Freitas, AE6Z.....\$20 Ed Mangan, KB6DLB.......#20 Ed Rawlinson, WD6CHD......#20 Rod Stafford, KD6SV.....\$20 Lou Stierer.WA6QYS.....\$20 Bill Stevens, W6ZM.....\$20 Ernest Zum Brunnen, WB6UOM..\$10 Fred Wallin, KA6AYX..... \$20 Leo Ruth, W6CNN....... \$20 Ken Stackhouse, WA4IAI...\$20 Carla Watson, WO6X.....\$20 Keith, KN6K is chairman/chairperson (whatever) of the Repeater Committee and as such will prepare a operating budget for review the Board. It is expected that necessary expenditures for of parts to get the new 440 machine going will be about another \$400. I hope you will be interested enough to help and to use the machines.

WHERE IT GOES....

Here is some info about club expenditures and their relations to collected annual dues. Printing is our largest single expense. 1985 saw us spend \$507.00 on printing, mostly for the newsletter. I estimate that we will spend around \$1500 for the This year, newsletter. This includes the costs of printing, collating, folding, stapling and mailing the newsletter. Dick's time is at a premium with new and changing job responsibilities so the extra production work must be done by our printer. It all takes time, folks! Before you get excited about the higher costs of the let's remember that we now get a bigger and more SCCARAGRAM, informative newsletter with almost all original material! the bulk mailing fee (.085 each), we find the Including newsletter this year will average about \$.55 each. Multiplying or so current members we have, you will see that we 225 by the will have an expense somewhere around \$1500.00 for the year. This works out to average # 6.60 per member per year...BUT WAIT!..not all of our members paid the full \$10.00 per year. WE have some members and some Honorary members...and remember Family Life membership is less than \$10.00 each.

Another major expense is the club's \$1,000,000 liability insurance premium. It's no secret that insurance rates are sky high... remember proposition 51? We got tagged to the tune of **\$551.00** for 1986 compared to **\$140.00** for **\$500,000** coverage in 1985. ARRL arranges this group coverage. We find that this costs **\$2.50** per member per year...not bad for a million dollars of coverage.

I could give more examples, but I'll spare you. The aforementioned are our biggest expenses. You can see that these 2 important and necessary expenses add to \$9.10 per year per member....certainly not much left to cover other expenses. I feel that dues must increase by necessity. Let's think about.

MEMBERSHIP NEWS.... New calls: Bill Gritter, KB6NBG (Novice Bill Gritter???); Bob Lang upgraded to Tech, N6NSW; Sam Bigham also is a new Tech, N6NRX. There are several other new calls out there, and I get them for the new issue. If YOU upgrade, please let me know so we can also recognize your acheivement.

That's all for now. See you at the next meeting! 73, Dan,WM6M



To all SCCARA members Hope you all enjoyed this years field day Exercise - The park, the weather, the operators were wonderful - dooking foward to doing it again! MEETING JULY 14th 900 MHZ BAND, our guest Spraker will be JOHN BAXTER G4KAH. Don't miss this one CU THERE !! ART, KG6PY



THE YL'S COLUMN by CARLA WO6X

Hello again to all you gals... June is almost over, and what an interesting month and time is going so fast that the SCCARA-GRAM deadline is upon me. For sometime lately I have been wondering if the reason for no response is because you are not aware that I started this column. Maybe the OM in the household needs some nudging, some reminders.... I need to find a reason for such little response. But, if this is not the case, then I feel that it is a shame, really...Some of you are taking a no-care, passive attitude about it, that if you would make a little effort, you would really learn to appreciate and enjoy Amateur Radio.

Do you know that in Northern California, to mention a few towns, such as Santa Rosa, Santa Cruz and Pine-Grove, there are groups of girls that have gotten together and formed their own clubs? Have a weekly net and get together once a month for a lunch or dinner? Not only that but they also help out during emergencies, handle traffic nets, etc.,etc. So why can't we have the same here?

Starting in September there will be a CW Net and another one on Phone just for YL'S. It will be one hour long for each segment. This will be on Thursday evenings. The CW Net will be on 10 Meters and the Phone will be on VHF. (Frequency to be announced).

The new classes for Novices, Technician and General have started under the auspices of SCCARA. Good Luck and my full support to all of you there, especially to Francis KB6JBQ and Cathy KB6IOQ! Keep up the good work girls. I expect to see you on the air.

By the time the SCCARA-GRAM reaches you I will be on vacation in New York, and most likely there will not be a column next month, but I will leave you something amusing to read.

> CUL.....33's Carla

DX BEFORE DISHES

DX BEFORE DISHES? THATS OK I SUPPOSE THE DISHES ARE ALWAYS WITH US, THE DX COMES AND GOES AND THOUGH THE DUST IS INCHES THICK, THAT IS A MATTER MINOR WHEN YOU HEAR ABOVE THE QRM A YL'S VOICE FROM CHINA. CRUMBS UPON THE CARPET? YOU CAN'T VACUME THE FLOOR YOU MIGHT MISS ABOVE THE CLEANERS NOISE A CHAT WITH LABRADOR. WHAT IF YOU HAVEN'T MADE THE BEDS? OR IF THE KIDS ARE BAWLING? THESE THINGS ARE UNIMPORTANT, IF YOU HEAR SAN FELIX CALLING. WHAT IF THE LAWN NEEDS MOWING? ALL THE WINDOWS CEASED TO SHINE? WHO CARES ABOUT THOSE BORING CHORES, WHEN SVALBARD'S FIVE BY NINE. THE OM'S BENT THE CAN-OPENER, WELL WHO CAN THINK OF COOKING WHEN AFRICA IS COMING IN AND ROUND THE BANDS YOUR LOOKING. BUT... IF YOU DO THE DISHES (WITH ONE EAR TO THE SET) HERE'S A BIT OF GOOD ADVICE "TWOULD PAY NOT TO FORGET" IF YOU HEAR SOME RARE DX, WHICH EVERYTHING SURPASSES DON'T "DROP WHAT YOU ARE DOING" IF YOU ARE WASHING CRYSTAL GLASSES..... Courtesy of VK2EBX, Joy Collis

EDITORS NOTE: OK YOU BOZOS, PASS THIS ON TO YOUR XYL'S TO READ!!

Are you one of the lucky owners of an all band, all mode transceiver? Seems that nearly all of the newer rigs have the capability to listen from around 150 KHZ or so through 30 MHZ and has nearly all of the modes. Lots of international SWL'ing, and its possible for you to hear an airsea rescue or other exciting happenings. With this much spectrum to listen to, you will never need to transmit (Now if your in my neighborhood, I'd never complain). Can you imagine listening 24 hours a day to "Sun-up broadcasts!" - Well its possible and loads of fun.

Well a couple of years ago when I bought a Yaesu FT-757GX, I discovered all these strange voices and musical songs. In fact I kept hearing the strangest CW-RTTY and other signs of life I couldn't even figure out. Then in December of 1984 I stopped in a store in San Carlos that is considered a specialist in Scanners and located a book called THE SHORT WAVE DIRECTORY, covering 1.6 to 30 MHZ. I picked up the second edition and it cost then about \$14.00. Believe me its a bargain! Heres how it works....You hear a signal (Any type) and you go to that frequency in the master Frequency cross reference and it will tell you the service, such as Aircraft, Country, and pages in the book that pertain to that country and it has all of the details. This book is so complete that it gives the Smuggling nets, with code names and details!! The book is 8 1/2" X 11" and my edition has pages of great information. You can pick up your copy 175 at:

> SCANNERS UNLIMITED 1199A LAUREL ST. SAN CARLOS, CA. 94070 415/ 573-1624

<u>CQ CQ CQ.....de WB6WKM</u> Short and sweet this month. Thanks to all of the fine contributions from club members...as I have mentioned before this is what it takes to keep the SCCARA-GRAM interesting. I would like to get some other input from some of the membership about the club repeater. Do you feel as I do that its just a shade above Simplex. What ever you think, drop me a post card. I sometimes feel like I'm the only one that gets tired of intermod and the <u>corny</u> IDer and 5 WPM CW. For the amount of money that we have invested in it we are really getting short changed. Well????....73 ,Dick

6



The American Radio Relay League 225 Main Street Newington, CT 06111 USA

Are you 17 or younger? Are you the oldest, licensed Amateur in your household?

If you can answer "YES" to both, these reduced rates apply to you!

Evidence of date of birth is required. Attach a copy of your birth certificate or driver's license, or have your parent or guardian complete the next line:

						Parent			
Applic	ant's Date of Birth		Signature			Guardian			
Please	check the annual member	ship rate which	applies to you:						
	I am 13 to 17 years of ag		st, licensed Amater	ur in my househ	old.				
	I am 12 or under and the	oldest, license	d Amateur in my h	ousehold.					
	□ \$ 6.25 U.S. & Possessions								
Name			Call						
Street			•						
City	State		ZIP	<u></u>					
Other	licensed Amateurs in my h	ousehold are:							
Name		Call		Age	<u></u>	<u></u>			
						<u></u>			
			******	• •					

Please submit this application directly to ARRL Hq. with your payment. Club commissions and rebates do not apply. Family membership is not applicable, and these rates are available only in the U.S. You will receive all League benefits and 12 issues of *QST*. Membership is available on a yearly basis only.

Your membership certificate and first issue of QST will reach you shortly.

Welcome to the ARRL.

THE AMERICAN RADIO RELAY LEAGUE, INC.

225 MAIN STREET

1 year

2 years

3 years

47

65

NEWINGTON CONNECTICUT, U.S.A. 06111

53

74

A bona fide interest in Amateur Radio is the only essential requirement, but full voting membership is granted only to licensed radio amateurs of the U.S.. Therefore if you have a license, please be sure to indicate it below. Please print.

() Previous Member () Renewal () New Member

Class of Lice	ense		Callsign	Date of Application			
Name							
Address	·	· · · ·		<u></u>			
City, State, Z	Zip						
Membership Class	. [] Regular	 Family Blind 	🗌 65 or older			
[] 1 vear	U.S. \$25	ELSEWHERE \$33	\$2	U.S. ELSEWHERE \$20 \$28			

4

6

37

50

IMPORTANT: Please attach your Expiration Notice to this form if you are renewing your current membership. Payment in U.S. Funds only.

These rates include the postage surcharge which partially offsets the additional cost to mail QST outside the U.S.

63

89

A member of the immediate family of a League member, living at the same address, may become a League member without QST at the special rate of \$2 per year. Family membership must run concurrently with that of the member receiving QST. Blind amateurs may join without QST for \$2 per year.

Persons who are age 65 or older may upon request apply for League membership at the reduced rates shown. Proof of age, in the form of a driver's license or birth certificate is required. If you are 17 or younger, a special rate may apply. Please see reverse side.

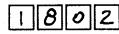
Your membership certificate will be mailed to you in about 2 weeks from the date we receive your application. Delivery of QST may take slightly longer, but future issues should reach you on a regular basis. Membership is available only to individuals. Fifty percent of dues is allocated to QST, and the balance for membership.

DUES ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Note:

If you are joining the ARRL for the first time and you wish to thank the ARRL-Affiliated Club that introduced you to the ARRL, please enter its 4 digit code (club members can tell you what their code is) in the space provided below.

Enter 4-digit code for sponsoring club, if any:



THE ABS'S OF RITY #7

7 Bit 6 5	0 0 0	0 0 1	0 1 0	0 1 1	1 0 0	1 Ø 1	1 1 Ø	1 1 1		
0000 0001 0010 0011 0100 0101 0110 0111	NUL SOH STX ETX EOT ENQ ACK BEL	DLE DC1 DC2 DC3 DC4 NAK SYN ETB	SPC ! # \$	01234567	© A B C D E F G	P Q R S T U V W	> abcdef⊡	pqrstuvw		
1000 1001 1010	BS HT LF	CAN EM SUB	() *	8 9 :	н І Ј	X Y Z	h 1 J	× y z		
1011 1100 1101 1110 1111	VT FF CR SO SI	ESC FS GS RS US	+	; < ; ?	K L M N O	[\] ↑	k 1 m D	{ } DEL		

ACK=acknowledge ENQ=enquiry BEL=sig. bell EM=end of medium EOT-end of transm. BS =back space CAN=cancel ESC=escape CR =car. return ETB=end of block DC1= dev.cont.1 ETX=end of text DC2= dev.cont.2 FF =form feed FS =file separator DC3= dev.cont.3 DC4= dev.cont.4 65 ≖grp. separator DEL="rubout" HT =horiz. tab DLE=d.link esc. LF =line feed

NAK=not acknowledge NUL=null RS =record separator SI =shift in SO =shift out SOH=start of heading SPC=space bar STX=start of text SUB=substitute SYN=synch. idle US =Unit separator VT =vertical tab

9

1=Mark= hole in tape Bit 1 transmitted first in serial data

Table 4 - The ASCII RTTY code.

ASCII code.

The Baudot code served radio and wire-line communications systems well, but it lacked enough different codes to support the symbols and control features needed to communicate with modern computers. Therefore, a much expanded code was devised by American National Standards Institute, Inc. (ANSI). This code is called the "American National Standard Code for Information Interchange"(ASCII, commonly pronounced "As-key"). The ASCII code contains 8 bits of data and therefore could support a character set of 256 different symbols. However, only 7 of the 8 bits are generally used for information, so the standard ASCII character set is limited to 128 symbols. The eight, or "parity" bit is sometimes used for a simple error detection system.----to be continued---- BY HARRY, AE6M

CONVENTION NOTES

By now every member should be aware that SCCARA is to be host for: "PACIFICON '86", the ARRL 1986 Pacific Division Convention. A board decision made this a SCCARA only undertaking for smoother operations. Dates: October 3, 4, 5 1986.

An executive committee and a general committee have been formed for operations and planning. The committes will be needing assistance from club members to conduct the convention.

Enriching amateur radio rather than enriching the club has been established as convention committee policy. Of course profit is expected, but it is not paramount.

As there was only one thousand dollars in the convention pre-registration incentives have to start, been treasury incentives are a reduction of three dollars in established. The registration price and a pre-registration award. To encourage early pre-registration chances are awarded as follows: three if pre-registration received by July 31; two if by August 31; one if by September 20; after that none. The pre-registration prize is an ICOM 751A TRANSCEIVER courtesy of Quement Electronics and Frank Quement with able assistance from KG6PY in making the deal.

In addition to the pre-registration award two other award categories have been established:

Attendance awards made at regular intervals throughout the convention. If not claimed by grand award time on Sunday they become minor grand awards.

Major grand awards and minor grand awards to be given on Sunday morning. Not necessary to be present for major awards, and they will be shipped if not present. Must be present for minor awards or wil be re-awarded to another.

Lenore Jensen, W6NAZ will be the principal banquet speaker. Lenore's speeches are consistently interesting to spouses and amateurs.

Ellen White, WIYL and Mike Riley, KXIB will be the ARRL dignitaries in attendance.

Carla Watson, WO6X promises us an interesting and unusual program for licensed and non-licensed YL's. Registration is not required for part of this program.

Ben Wilbanks, KA6R is busy planning an extensive program of technical, public service, and emergency sessions. We will have items of interest to all.

Jim Daddysman, K6YKG is planning "Wouff Hong" for after the banquet on Saturday night. Jim is seeking help in conducting this old ARRL ritual. Anyone who can help JD out please call him.

On Friday a tour of Stanford University's linear accelerator is planned. Buses will leave the hotel at around ten oclock. You will be back late for lunch, but we must get the trip over before commuter traffic builds up.

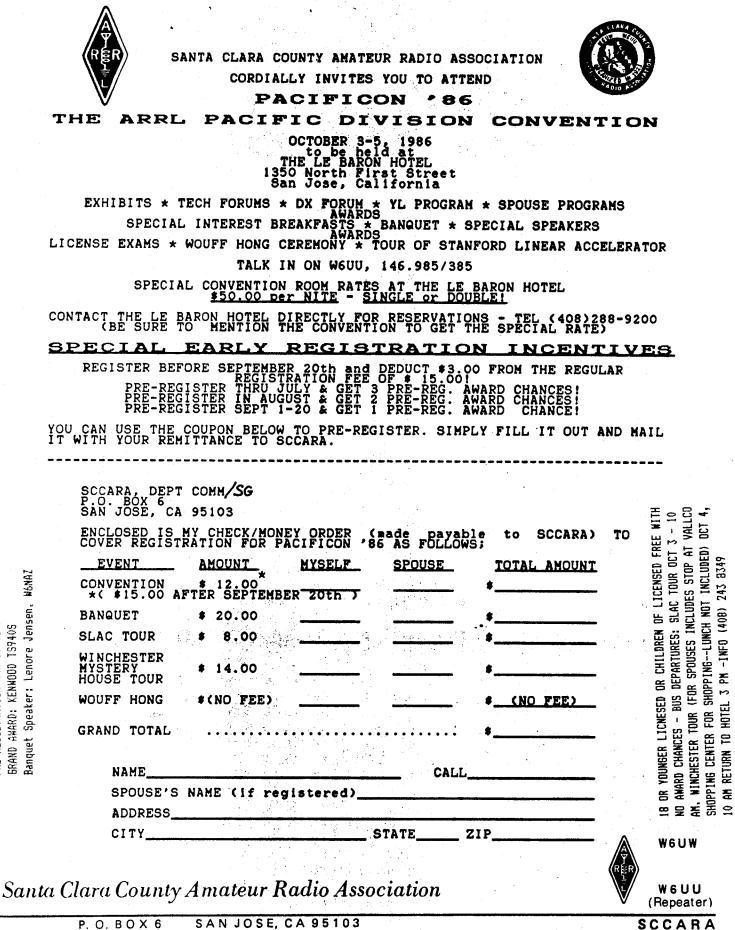
License testing will be held during the convention. Session times will be announced at a later date.

Persons eighteen years old or younger will be granted free admission in the following categories: licensed amateurs; children of licensed amateurs; guests of licensed amateurs.

Icom, Yaesu, Quement Electronics, HRO, Alinco, Dick Smith Electronics and others have signed up for exhibit booths.

Grand award will be a Kenwood TS-940S courtesy of Kenwood and HRO. We will have other awards.

Anyone who can assist the committee in conducting the convention please call AE6Z on 243 8349. Your assistance is urgently needed. (SCCONVO.doc)



SAN JOSE, CA 95103

PRE-REGISTRATION AWARD: ICOM 751A

GRAND AWARD: KENWOOD 159405

11

8349

243

3 PM -INFO (408)

HOTEL

2

FOR

CENTER

Another month has gone by without much input for the column. I wonder if anyone even reads it? It would seem that with 220 members in the club that we would get a little participation. I can't believe that none of you have any opinions about radio equipment. I would like to hear from people in the Novice class who might have questions. Let's hear from some of you new Kenwood owners.

Andy Noble KB6MXG, a new novice, is interested in a Yaesu FT-757. I heard a rumor that they are junk. Is there anyone out there who owns one? I just purchased an MFJ packet controller, but haven't hooked it up yet. Let's hear from some of the packeteers out there. I am also in the market for a dual-bander, any suggestions?

Have you seen the new Icom 28A/H? It is a 2-meter mobile with 21 memories. It covers 138-174 MHZ. Could come in handy during the fire season. You could listen in on CDF at 151 MHZ and the city/county fire departments at 154 MHZ. I hope that the availability of these frequencies doesn't produce a ration of bottleggers.

I'd like to pass on a little information for people with Icom hand-held radios. Be aware that the BP-5 battery pack has no provisions for charging from a wall charger. I don't know why they did this but, it is very annoying if you don't notice until you've purchased one. They intend for you to use the drop-in charger. As long as I'm telling you about battery packs, anyone with a Wilson hand-held should know that the Yaesu nicad packs fit nicely.

For those of you who have time to write, the address is: Equipment Column, P.O. Box 360640 Milpitas, Ca. 95035.

> 73's Eric Homa N6NMZ

OWNERS IMPRESSION OF THE YAESU FT-757 GX

I hope that Eric, N6NMZ will not mind my stepping in direct to answer his report about the FT-757GX. I'm not sure that your not just baiting me Eric, but as one of thousands of 757 owners, I felt that I just had to give my impression of this rig. Now for starters those that know me also know that I have been running Kenwood's for the last several years, and I still do (TS-940S), but when I first saw the 757 it was love at first sight! I had been running mobil a Kenwood TS-120 and it was perfect! All one has to do is to compare price and features and it will be pretty hard to choose any other rig to use for the price, in fact even at several hundred dollars more, I doubt you can touch it. Wish I had more space to devote to the topic, but let me just say that in the last 3 years it has been a great rig and even the new TS-440S can't turn my head. Thanks Eric and I'll be getting in touch with you to pass on more details. One more thing that I wish to make clear, its one heck of a base rig when coupled to a 20 Amp regulated power supply! Dick, WB6WKM.

Mr. Bill's Antenna Wax

FINALLY! A REAL SOLUTION TO THE PROBLEMS THAT HAVE BEEN TROUBLING <u>EVERYONE</u> INVOLVED IN RADIO AND ANTENNAS, SWL, CB, AMATEUR AND COMMERCIAL ALIKE.

UNTIL NOW YOUR ANTENNAS HAVE HAD NO DEFENSE AGAINST BIRDS. SEVERE WEATHER CONDITIONS. MOISTURE AND MANY OTHER UNCONTROLABLE EFFICIENCY HAMPERING E CONDITIONS. BUT NO MORE! NOW THERE'S MR. BILL'S ANTENNA WAX!!!

MR. BTLL'S ANTENNA WAX:

* INCREASES STABILITY AND LIFE OF ANTENNA SYSTEMS!

* IS UNAFFECTED BY EXTREME TEMPERATURES!

* WORKS WELL VITH YAGI, QUAD, VERTICAL AND ALL WIRE ANTENNAS!

- * ONLY REQUIRES ONE APPLICATION FOR LIFE OF ANTENNA!
- * REDUCES WIND LOADING BY 2/FC!
- * LOWERS SWR TO AN ASTOUNDING .01:1!
- * MAKES BIRDS AND ORM SLIDE RIGHT OFF!

MR. BILL'S ANTENNA WAX IS AVAILABLE IN EASY TO USE AEROSOL SPRAY, PASTE OR ECONOMICAL GALLON SPREAD CANS. DON'T LET ANTENNA PROBLEMS PLAGUE YOU ANY LONGER. INVEST IN **MR. BILL'S ANTENNA WAX** AND FOR THE FIRST TIME <u>REALLY</u> ENJOY RADIO!

MR. BILL'S ANTENNA WAX IS AVAILABLE AT YOUR DEALER OR WRITE TO:

MR. BJLL'S ANTENNA PRODUCTS THRIFTSHOP BOX 1702-W DEPT. R.U. NUTS IFSIAM, U.R. 2

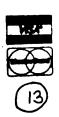
"KEEPS MY RUBBER DUCK DUCKY" BOB HATTER, K⁷RDH

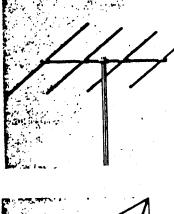
"DOESN'T LEAVE THAT WAXY BUILD-UP" RON JONES, WB7ADD

"HELPS MAINTAIN STRONG ERECTIONS" JOHN CERNIGLIA, ND7B "BEST THING SINCE 'NO CODE' LICENSE" FD CUNNINGHAM, NF78

"CAN ACTUALLY SEE ORM SLIDE OFF" CROSBY!, N7CVR

"MR. HAND AND SLUGGO LOVE IT" MR. BILL, KOUCH





PRESIDENT......Ed Rawlinson, WD6CHD / 264-2988 VICE-PRES.....Art Furtado, KG6PY / 371-2655 SECRETARY.....Jose Bocanegra, WA6YRU / 266-2997 TREASURER.....Dan Dietz, WM6M / 224-9023

DIRECTORS; George Allen, WA60 Clarance Dodge, KB6DLG Herb Himmelfarb, KB6ABG

Bob Richmond, N6KLQ Lou Steiner, WA6QYS Harry Wijtman, AE6M VEC HOTLINE (408) 984-8353

SCCARA-GRAM STAFF: Dick Letrich, WB6WKM, Edit. / 264-0965 Joe Quirantes, WA6DXP, Data Base Mgr. / 371-0959 Ed Rawlinson, WD6CHD, Mailman, / 264-2988

CLUB REPEATER....Input 146.985 MHZ=Output 146.385 MHZ. On-the-air meeting Monday Nights 7:30PM Local time except on regular meeting nights.

REGULAR MEETINGS, are held the second Monday of each month. Meetings start at 7:30PM Local and are held at the COUNTY SERVICE CENTER 1555 BERGER DRIVE, BLDG. #2, San Jose. Visitors are always welcome.

Permission to reprint articles is hereby granted provided source is credited. SCCARA-GRAM is published monthly by the Santa Clara County Amateur Radio Association.

SANTA CLARA COUNTY AMATEUR RADIO ASSOCATION AFFILIATE OF American Radio Relay League P.O. Box 6, San Jose, Ca 95103

Non-Profit Crg U.S. Postoge PAID Permit No. 3316 Son Jose CA

KB6LCJ MICHAEL HASTINGS 2681 BARCELLS AVE. SANTA CLARA, CA. 95051

TIME-DATE BULLETIN